

## **RFP for Reservoir System Monitoring City of Raleigh – Water Plants Division**

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The City of Raleigh contractor will assist the City of Raleigh with its ongoing reservoir system water quality program. The contractor will conduct aquatic plant surveys, evaluate the efficacy of treatment, and submit detailed reports biannually which trend the results over time.

Experience conducting bacterial source tracking studies, fish kill assessments, and dissolved oxygen profiles are desirable.

The City of Raleigh reservoir system includes:

- Falls Lake (at the Intake tower)
- Lake Benson (platform at Intake - Raw Water Pump Station)
- Lake Wheeler (at the Intake)

The specific tasks and schedules are as follows:

### **March and September:**

Perform submerged aquatic vegetation (SAV) surveys at the sites listed below and recommend an aquatic herbicide for the City reservoirs. Findings will be documented by submitting photographs along with commentary.

Falls Lake surveys will occur within ¼ mile distance from the public access boat ramps and the US Army Corps of Engineers private boat ramp.

Boat ramps include:

- NC Wildlife Resource Commission:
  - Ledge Rock
  - Hickory Hill
  - Eno River
  - Upper Barton
- NC Division of Parks boat ramps
  - BW Wells
  - Holly Point
  - Highway 50
  - Rolling View
- US Army Corps of Engineers boat ramp near the Falls Lake dam

SAV surveys will be performed over the entire surface of the other reservoir locations, including:

- Lake Benson
- Lake Wheeler

- Simpkins Pond

**Monthly June through September\*:**

Evaluate efficacy of treatment for submerged aquatic vegetation (SAV) will be performed two weeks after four dates of application by a third party contractor at the following locations:

- Falls Lake
- Lake Benson

\*Note: The contractor must be licensed by the NC Department of Agriculture as a Ground Applicator (Aquatic) and Pesticide Consultant.

**Quarterly:**

Perform the following

- Calibrate two Turner *AquaFlor*® used at EM Johnson Plant and DE Benton Plant by Operations staff
- Review data collected by Operations staff and provide written commentary on accumulated data trends and their significance

**As needed:**

- SAV survey (not covered in contract)
- Evaluate efficacy of herbicide treatment (not covered in contract)
- Evaluate efficacy of Chinese grass carp (*Ctenopharyngodon idella*) added by the NC DWR in Lake Benson to control Hydrilla, using the existing stocking model to maintain carp numbers (not covered in contract)
- Evaluate efficacy of Strike® treatments to control midge fly larvae at the Lake Benson Raw Water Pump Station (not covered in contract)